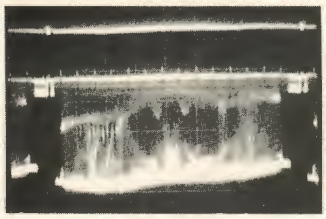
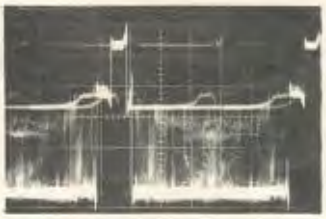
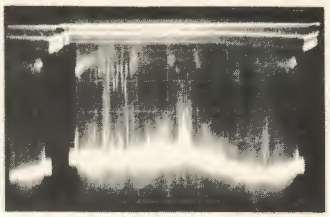


1. VERT RATE 3V P-P
TP "B"
2ND DET TEST POINT

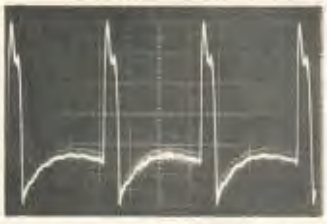


2. HORIZ RATE 3V P-P
TP "B"
2ND DET TEST POINT

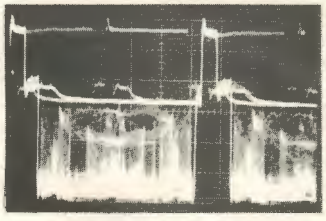
3. VERT RATE 7.5V P-P
V4A 8GN8-7
2ND VIDEO AMP GRID



4. VERT RATE 60V P-P
V4A 8GN8-9
2nd VIDEO AMP PLATE

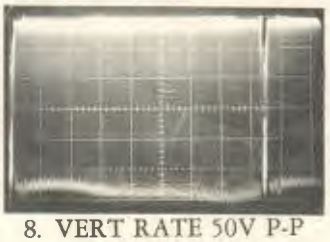


5. HORIZ RATE 600V P-P
V11A 5GH8A-6
AGC KEYING PULSE



6. HORIZ RATE 2.5V P-P
V11A 5GH8A-2
AGC GRID

7. HORIZ. RATE 50V P-P
V4B 5GH8A-3
SYNC SEP PLATE



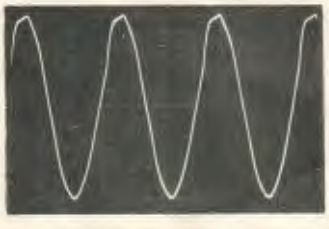
8. VERT RATE 50V P-P
V4B 5GH8A-3
SYNC SEP PLATE

9. VERT RATE 125V P-P
V3B 13JZ8-2
VERT OSC PLATE

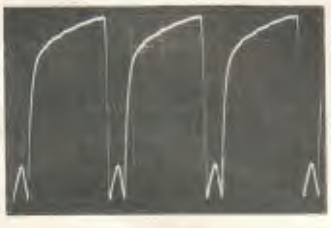
10. VERT RATE 380V P-P
V3B 13JZ8-10
VERT OSC GRID

11. VERT RATE 4.3V P-P
V3A 13JZ8-9
VERT O P CATHODE

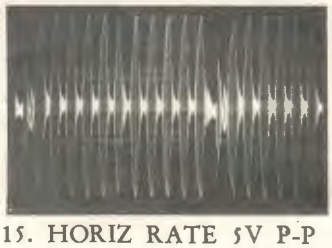
12. HORIZ RATE 22V P-P
HORIZ DISCR. CR501 A&B
COMMON CATHODE



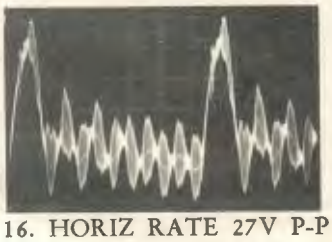
13. HORIZ RATE 140V P-P
V5A 5GH8A-2
HORIZ OSC GRID



14. HORIZ RATE 160V P-P
V5A 5GH8-6
HORIZ OSC PLATE



15. HORIZ RATE 5V P-P
V12B 5GH8A-1
CHROMA AMP PLATE



16. HORIZ RATE 27V P-P
V10A 5GH8A-2
BURST AMP GRID

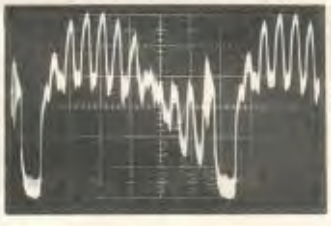
17. HORIZ RATE 120V P-P
JCTN C719-C720
BURST XFMR T702

18. HORIZ RATE 8.5V P-P
JCTN R743 & L705
DEMOD GRID

19. HORIZ RATE 360V P-P
JUNCTION CR701-R704
BURST BLANKING PULSE

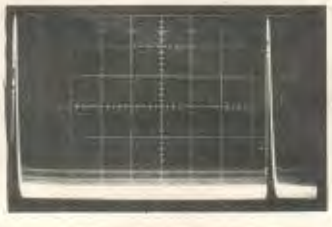
20. HORIZ RATE 170V P-P
V20 PIN 12
BLUE B-Y

21. HORIZ RATE 70V P-P
V20 PIN 7
GREEN G-Y



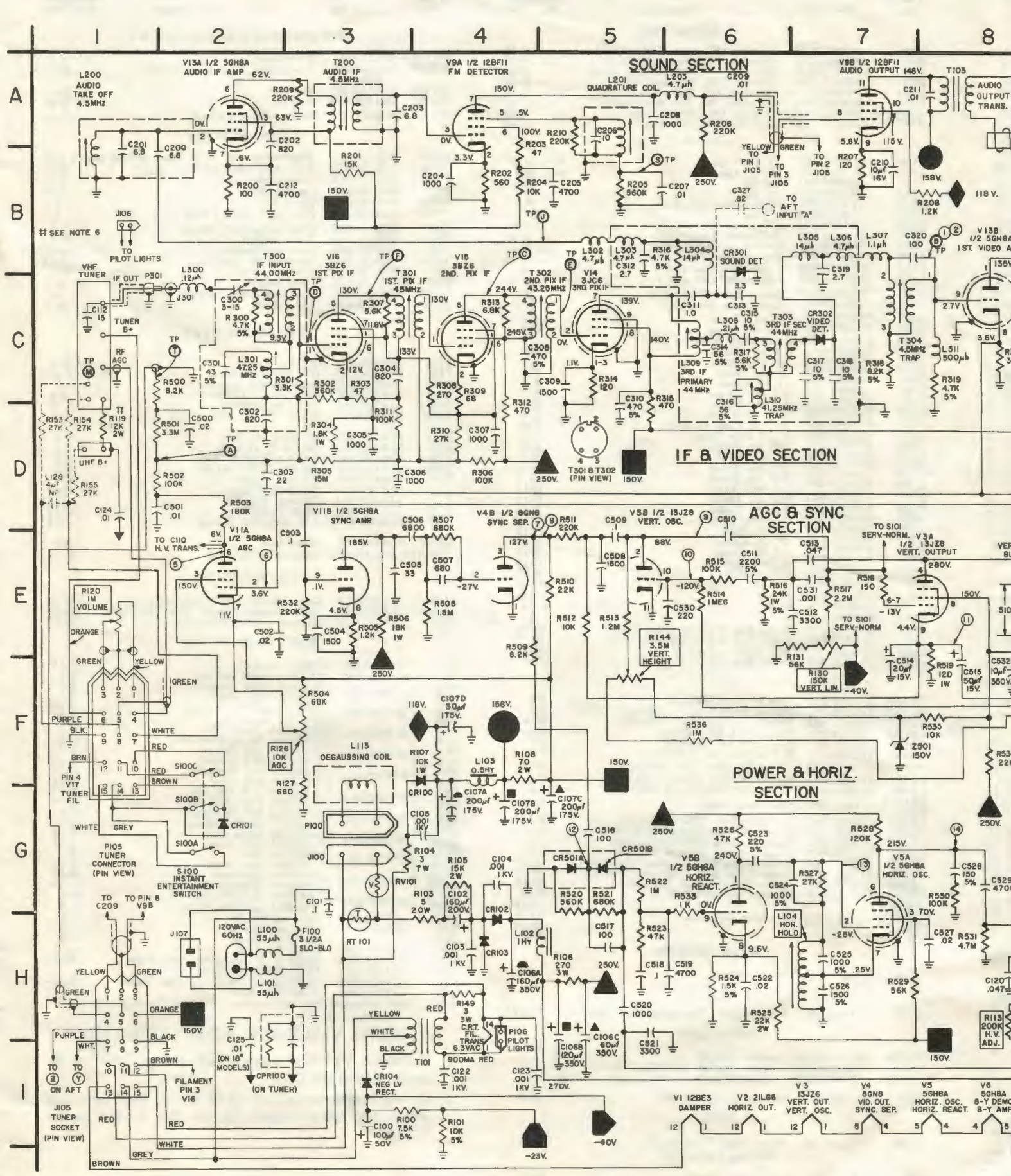
22. HORIZ RATE 170V P-P
V20 PIN 3
RED R-Y

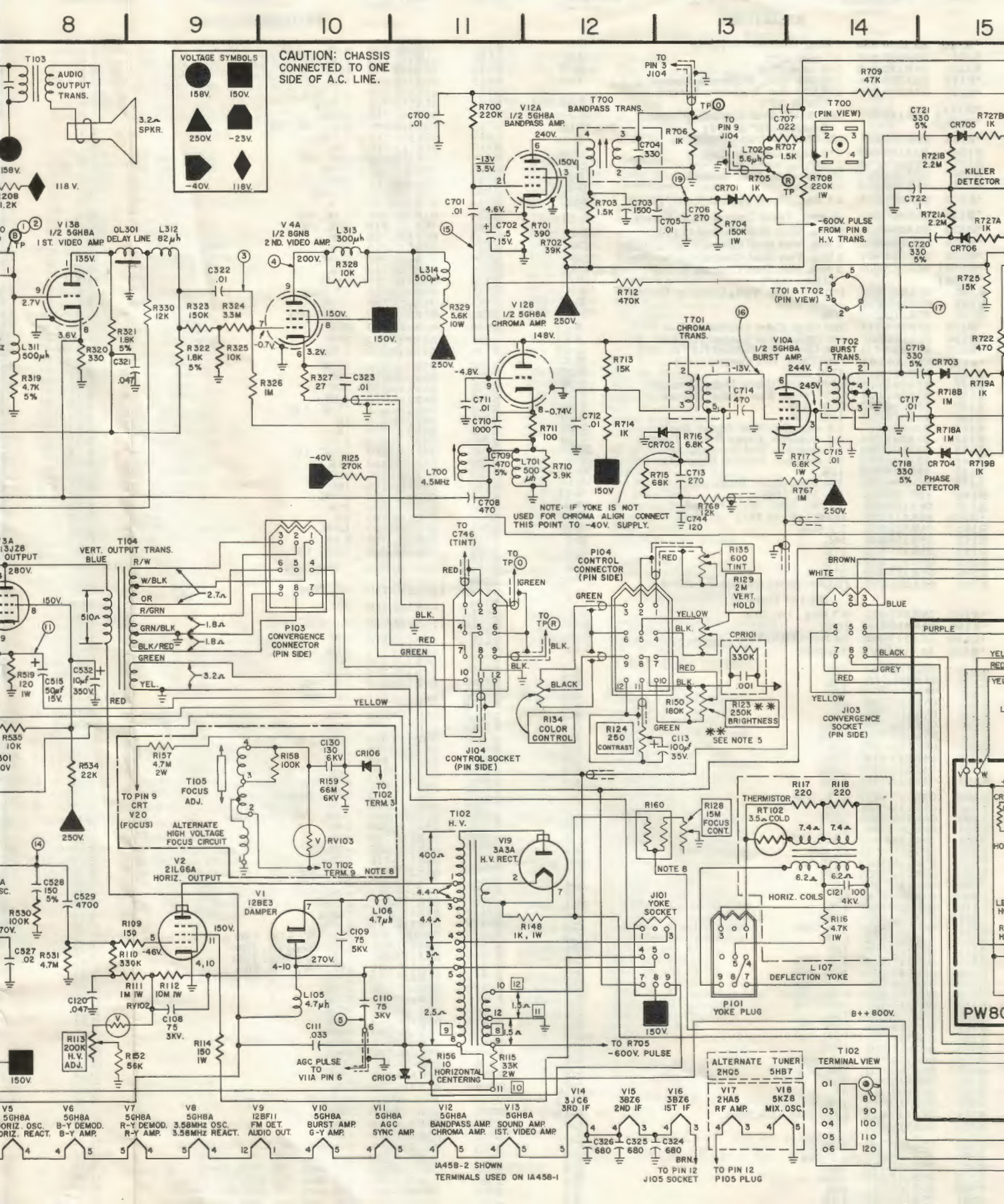
23. HORIZ RATE 300V P-P
JCTN C742-R765
BURST KEY & CONV PULSE



24. VERT RATE 78V P-P
R766
BLANKER

CMC-37 Series Chassis Signal Voltage Waveforms


SOUND SECTION
IF & VIDEO SECTION
AGC & SYNC SECTION
POWER & HORIZ. SECTION
L200 AUDIO TAKE OFF 4.5MHz
V13A 1/2 5GH8A AUDIO IF AMP
T200 AUDIO IF 4.5MHz
V9A 1/2 12BF11 FM DETECTOR
L201 QUADRATURE COIL
V9B 1/2 12BF11 AUDIO OUTPUT
T103 AUDIO OUTPUT TRANS.
J106 TO PILOT LIGHTS
SEE NOTE 6
VHF TUNER
T300 IF INPUT 44.00MHz
V16 3BZ6 1ST. PIX IF
T301 1ST. PIX IF 45MHz
V15 3BZ6 2ND. PIX IF
T302 2ND. PIX IF 43.25MHz
V14 3JC6 3RD. PIX IF
CR301 SOUND DET.
T303 3RD IF SEC 44MHz
CR302 VIDEO DET.
T304 4.5MHz TRAP
L310 41.25MHz TRAP
V13B 1/2 5GH8A 1ST. VIDEO A
TUNER B+
RF AGC
UHF B+
TO AFT INPUT "A"
T301 & T302 (PIN VIEW)
V11B 1/2 5GH8A SYNC AMP.
V4B 1/2 8GN8 SYNC SEP.
V3B 1/2 13JZ8 VERT. OSC.
V11A 1/2 5GH8A AGC
TO C110 H.V. TRANS.
TO S101 SERV-NORM.
V3A 1/2 13JZ8 VERT. OUTPUT
R144 3.5M VERT. HEIGHT
R130 150K VERT. LIN.
R131 56K
R120 1M VOLUME
ORANGE
GREEN
YELLOW
PURPLE
BLK.
BRN.
WHITE
RED
GREY
BROWN
PIN 4 V17 TUNER FIL.
S100C
S100B
S100A
CR101
P105 TUNER CONNECTOR (PIN VIEW)
S100 INSTANT ENTERTAINMENT SWITCH
L113 DEGAUSSING COIL
P100
J100
RV101
RT 101
J107
120VAC 60Hz
F100 3 1/2A SLO-BLO
L100 55μh
L101 55μh
TO C209
TO PIN 8 V9B
C125 .01 (ON 18" MODELS)
CPR100 (ON TUNER)
FILAMENT PIN 3 V16
J105 TUNER SOCKET (PIN VIEW)
TO (Z) ON AFT
TO (Y) ON AFT
CR104 NEG LV RECT.
T101
P106 PILOT LIGHTS
900MA RED
C.R.T. FIL. TRANS. 6.3VAC
V5B 1/2 5GH8A HORIZ. REACT.
V5A 1/2 5GH8A HORIZ. OSC.
L104 HOR. HOLD
CR501A
CR501B
V1 12BE3 DAMPER
V2 21LG6 HORIZ. OUT.
V3 13JZ6 VERT. OUT. VERT. OSC.
V4 8GN8 VID. OUT. SYNC. SEP.
V5 5GH8A HORIZ. OSC. HORIZ. REACT.
V6 5GH8A B-Y DEMO B-Y AMP
R113 200K H.V. ADJ.
Z501 150V
250V.
150V.
118V.
158V.
-40V.
-23V.
270V.


8
9
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11
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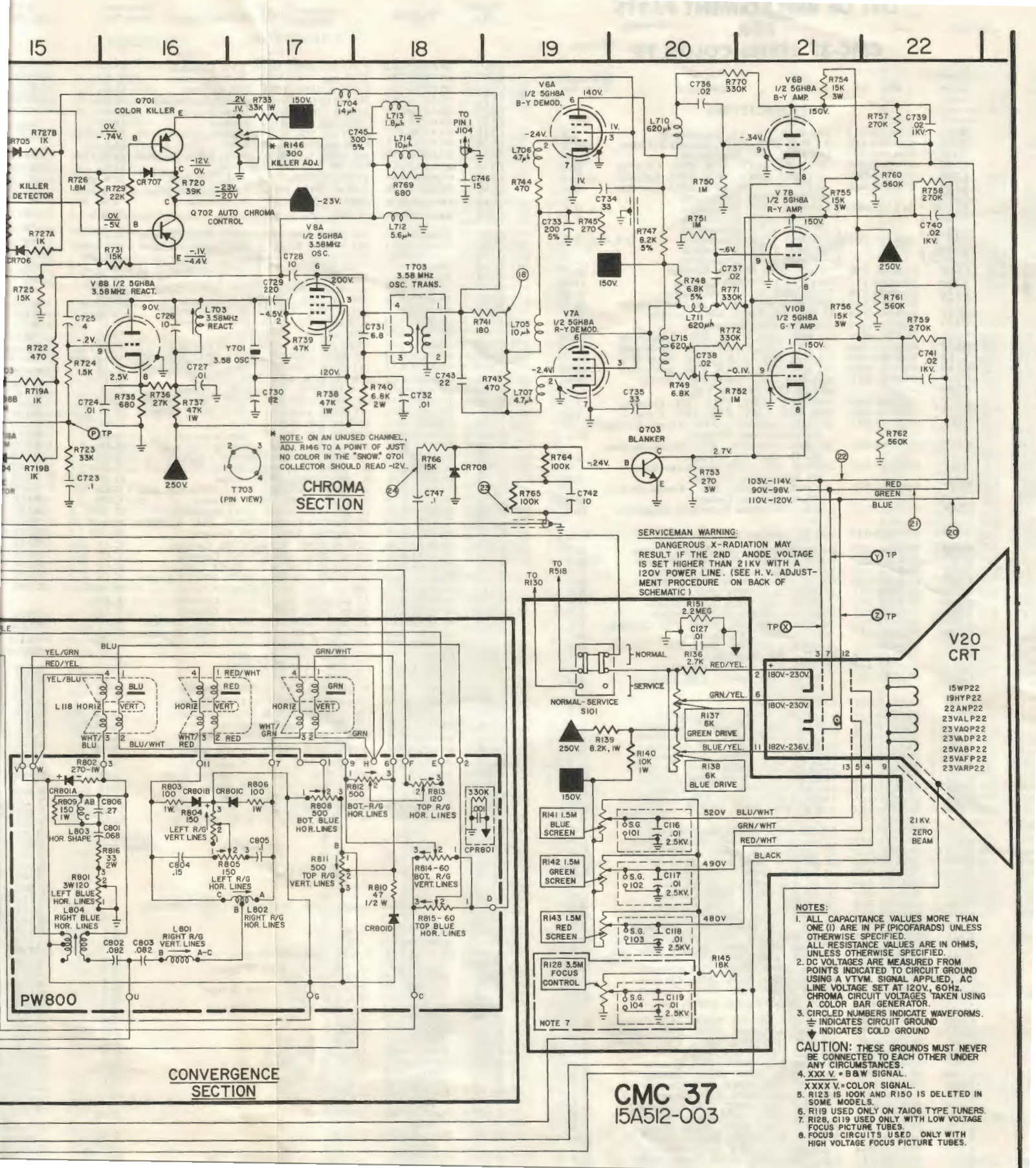
14
15
CAUTION: CHASSIS CONNECTED TO ONE SIDE OF A.C. LINE.
VOLTAGE SYMBOLS
158V.
150V.
250V.
-23V.
-40V.
118V.
T103
AUDIO OUTPUT TRANS.
3.2Ω SPKR.
118 V.
V138 1/2 5GH8A 1ST. VIDEO AMP.
OL301 DELAY LINE
L312 82μh
V4A 1/2 8GN8 2ND. VIDEO AMP.
L313 300μh
R328 10K
L314 500μh
R329 5.6K 10W
V12B 1/2 5GH8A CHROMA AMP.
V12A 1/2 5GH8A BANDPASS AMP.
T700 BANDPASS TRANS.
T700 (PIN VIEW)
T701 & T702 (PIN VIEW)
T701 CHROMA TRANS.
T702 BURST TRANS.
V10A 1/2 5GH8A BURST AMP.
R709 47K
R712 470K
R713 15K
R714 1K
R716 6.8K
R717 6.8K 1W
R767 1M
R715 68K
R769 12K
C713 270
C714 470
C715 .01
C744 120
CR702
L700 4.5MHz
L701 500 μh
R710 3.9K
C708 470
C709 470 5%
C710 1000
C711 .01
C712 .01
R711 100
R712 470K
R125 270K
-40V.
250V.
150V.
148V.
-4.8V.
-0.74V.
-13V.
244V.
245V.
NOTE: IF YOKE IS NOT USED FOR CHROMA ALIGN CONNECT THIS POINT TO -40V. SUPPLY.
-600V. PULSE FROM PIN 8 H.V. TRANS.
KILLER DETECTOR
PHASE DETECTOR
CR703
CR704
CR705
CR706
R718A 1M
R718B 1M
R719A 1K
R719B 1K
R721A 2.2M
R721B 2.2M
R722 470
R725 15K
R727A 1K
R727B 1K
C717 .01
C718 330 5%
C719 330 5%
C720 330 5%
C721 330 5%
C722
T104 VERT. OUTPUT TRANS.
BLUE
R/W
W/BLK
OR
R/GRN
GRN/BLK
BLK/RED
GREEN
YEL.
2.7Ω
1.8Ω
1.8Ω
3.2Ω
510Ω
P103 CONVERGENCE CONNECTOR (PIN SIDE)
P104 CONTROL CONNECTOR (PIN SIDE)
J104 CONTROL SOCKET (PIN SIDE)
J103 CONVERGENCE SOCKET (PIN SIDE)
TO C746 (TINT)
TO TP G
TO TP R
RED
GREEN
BLK.
YELLOW
BROWN
WHITE
BLUE
PURPLE
BLACK
GREY
R134 COLOR CONTROL
R135 600 TINT
R129 2M VERT. HOLD
CPR101 330K .001
R123 250K BRIGHTNESS
R124 250 CONTRAST
C113 100μf 35V.
** SEE NOTE 5
R150 180K
R534 22K
R535 10K
R519 120 1W
C515 50μf 15V.
C532 10μf 350V.
T105 FOCUS ADJ.
R157 4.7M 2W
R158 100K
R159 66M 6KV
C130 6KV
CR106
TO T102 TERM. 3
TO PIN 9 CRT V20 (FOCUS)
ALTERNATE HIGH VOLTAGE FOCUS CIRCUIT
RV103
TO T102 TERM. 9
NOTE 8
V2 21LG6A HORIZ. OUTPUT
V1 12BE3 DAMPER
V19 3A3A H.V. RECT.
T102 H.V.
R160
R128 15M FOCUS CONT.
NOTE 8
THERMISTOR
RT102 3.5Ω COLD
R117 220
R118 220
7.4Ω
6.2Ω
HORIZ. COILS
C121 100 4KV.
R116 4.7K 1W
J101 YOKE SOCKET
L107 DEFLECTION YOKE
P101 YOKE PLUG
B++ 800V.
R148 1K, 1W
L106 4.7μh
C109 75 5KV.
L105 4.7μh
C110 75 3KV.
C111 .033
R156 10 HORIZONTAL CENTERING
R115 33K 2W
CR105
AGC PULSE TO V11A PIN 6
TO R705 -600V. PULSE
R109 150
R110 330K
R111 1M 1W
R112 10M 1W
RV102
R113 200K H.V. ADJ.
R152 56K
R114 150 1W
C120 .047
C108 75 3KV.
C527 .02
R531 4.7M
C528 150 5%
C529 4700
R530 100K
400Ω
4.4Ω
2.5Ω
1.5Ω
-46V.
270V.
4-10
4,10
ALTERNATE TUNER
2HQ5
5HB7
V17 2HA5 RF AMP.
V18 5KZ8 MIX. OSC.
T102 TERMINAL VIEW
01
03
04
05
06
80
90
100
110
120
TO PIN 12 P105 PLUG
TO PIN 12 J105 SOCKET
BRN.
V5 5GH8A ORIZ. OSC. REACT.
V6 5GH8A B-Y DEMOD. B-Y AMP.
V7 5GH8A R-Y DEMOD. R-Y AMP.
V8 5GH8A 3.58MHz OSC. 3.58MHz REACT.
V9 12BF11 FM DET. AUDIO OUT.
V10 5GH8A BURST AMP. G-Y AMP.
V11 5GH8A AGC SYNC AMP.
V12 5GH8A BANDPASS AMP. CHROMA AMP.
V13 5GH8A SOUND AMP. IST. VIDEO AMP.
V14 3JC6 3RD IF
V15 3BZ6 2ND IF
V16 3BZ6 IST IF
C326 680
C325 680
C324 680
IA458-2 SHOWN TERMINALS USED ON IA458-1


15
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Q701 COLOR KILLER
KILLER DETECTOR
Q702 AUTO CHROMA CONTROL
R146 300 KILLER ADJ.
V6A 1/2 5GH8A B-Y DEMOD.
V6B 1/2 5GH8A B-Y AMP.
V7A 1/2 5GH8A R-Y DEMOD.
V7B 1/2 5GH8A R-Y AMP.
V8A 1/2 5GH8A 3.58MHz OSC.
V8B 1/2 5GH8A 3.58MHz REACT.
V10B 1/2 5GH8A G-Y AMP
T703 3.58 MHz OSC. TRANS.
L703 3.58MHz REACT.
Y701 3.58 OSC
Q703 BLANKER
CR706
CR707
CR708
TO PIN 1 J104
TO R130
TO R518
CHROMA SECTION
T703 (PIN VIEW)
* NOTE: ON AN UNUSED CHANNEL, ADJ. R146 TO A POINT OF JUST NO COLOR IN THE "SNOW." Q701 COLLECTOR SHOULD READ -12V.
SERVICEMAN WARNING:
DANGEROUS X-RADIATION MAY RESULT IF THE 2ND ANODE VOLTAGE IS SET HIGHER THAN 21KV WITH A 120V POWER LINE. (SEE H. V. ADJUSTMENT PROCEDURE ON BACK OF SCHEMATIC)
RED
GREEN
BLUE
103V.-114V.
90V.-98V.
110V.-120V.
NORMAL-SERVICE S101
V20 CRT
15WP22
19HYP22
22ANP22
23VALP22
23VAQP22
23VADP22
25VABP22
25VAFP22
23VARP22
21KV. ZERO BEAM
520V
490V
480V
BLU/WHT
GRN/WHT
RED/WHT
BLACK
CONVERGENCE SECTION
PW800
CMC 37
15A512-003
NOTES:
1. ALL CAPACITANCE VALUES MORE THAN ONE (1) ARE IN PF (PICOFARADS) UNLESS OTHERWISE SPECIFIED. ALL RESISTANCE VALUES ARE IN OHMS, UNLESS OTHERWISE SPECIFIED.
2. DC VOLTAGES ARE MEASURED FROM POINTS INDICATED TO CIRCUIT GROUND USING A VTVM. SIGNAL APPLIED, AC LINE VOLTAGE SET AT 120V., 60Hz. CHROMA CIRCUIT VOLTAGES TAKEN USING A COLOR BAR GENERATOR.
3. CIRCLED NUMBERS INDICATE WAVEFORMS.
⏚ INDICATES CIRCUIT GROUND
▼ INDICATES COLD GROUND
CAUTION: THESE GROUNDS MUST NEVER BE CONNECTED TO EACH OTHER UNDER ANY CIRCUMSTANCES.
4. XXX V. = B&W SIGNAL.
XXXX V. = COLOR SIGNAL.
5. R123 IS 100K AND R150 IS DELETED IN SOME MODELS.
6. R119 USED ONLY ON 7A10 TYPE TUNERS.
7. R128, C119 USED ONLY WITH LOW VOLTAGE FOCUS PICTURE TUBES.
8. FOCUS CIRCUITS USED ONLY WITH HIGH VOLTAGE FOCUS PICTURE TUBES.

LIST OF REPLACEMENT PARTS FOR CMC-37 SERIES COLOR TV

Symbol No.	Part No.	Description	Schematic Zone No.
		CAPACITORS	
C100	04A030-013	100 Mfd, 50V, 5%, Electrolytic	I-3
C101	05A055-125	0.1 Mfd, 20%, 400V, Molded Tubular	H-3
C102	04A108-001	160 Mfd, 200V, Electrolytic	G-4
C103	05A068-060	.001 Mfd, GMV, 1KV, Z5U, Ceramic	H-4
C104	05A068-060	.001 Mfd, GMV, 1KV, Z5U, Ceramic	G-4
C105	05A068-060	.001 Mfd, GMV, 1KV, Z5U, Ceramic	G-4
C106A C106B C106C	04A106-001	160 Mfd, 350V, Electrolytic 120 Mfd, 350V, Electrolytic 60 Mfd, 350V, Electrolytic	H-4, H-5
C107A C107B C107C C107D	04A107-001	200 Mfd, 175V, Electrolytic 200 Mfd, 175V, Electrolytic 200 Mfd, 175V, Electrolytic 30 Mfd, 175V, Electrolytic	G-4, G-5, F-4
C108	05A068-178	75 pf, 3KV, N2200, Ceramic	H-9
C109	05A068-177	75 pf, 5KV, N2200, Ceramic	H-10
C110	05A068-178	75 pf, 3KV, N2200, Ceramic	H-10
C111	05A055-269	.033 Mfd, 10%, 600V. Molded Tubular	H-10
C112	05A068-014	15 Pf., 10%, 500 V, NPO, Ceramic	C-1
C113	04A030-015	100 Mfd, 35V, Electrolytic	D-10
C116	05A082-008	.01 Mfd, 20%, 2.5KV, Z5U, Spark Gap	G-20
C117	05A082-008	.01 Mfd, 20%, 2.5KV, Z5U, Spark Gap	G-20
C118	05A082-008	.01 Mfd, 20%, 2.5KV, Z5U, Spark Gap	H-20
C119	05A082-008	.01 Mfd, 20%, 2.5KV, Z5U, Spark Gap	H-20
C120	05A052-021	.047 Mfd, 20%, 200V, Paper Mylar	H-8
C121	———	100 pf, 4KV (Part of Yoke)	G-14
C122	05A068-060	.001 Mfd, GMV, Z5U, 1KV, Ceramic	I-4
C123	05A068-060	.001 Mfd, GMV, Z5U, 1KV, Ceramic	I-4
C124	05A145-002	.01 Mfd, +80-20%, Z5U, Across-the-line, UL recognized, Ceramic	D-1
C125	05A145-002	.01 Mfd, +80-20%, Z5U, Across-the-line, UL Recognized, Ceramic	I-3
*C126	05A145-001	2200 pf, 10%, Z5P, Across-the-line, UL recognized, Ceramic	I-2
C127	05A145-002	.01 Mfd, +80-20%, Z5U, Across-the-line, UL recognized, Ceramic	E-20
C128	04A030-025	4 Mfd, 10V, Non Polarized, Eletrolytic	D-1
*C130	05A068-037	130 Pf., 20%, 6KV, N2200, Ceramic	F-10
C200	05A068-009	6.8 pf, ± .5 pf, 500V, NPO, Ceramic	B-1
C201	05A068-009	6.8 pf, ± .5 pf, 500V, NPO, Ceramic	B-1
C202	05A051-021	820 pf, 10%, 500V, Z5P, Ceramic	B-3
C203	05A068-009	6.8 pf, ± .5 pf, 500V, NPO, Ceramic	A-3
C204	05A051-071	1000 pf, 20%, 500V, Z5P, Ceramic	B-4
C205	05A051-084	4700 pf, 10%, 500V, Z5P, Ceramic	B-5
C206	05A051-123	10 pf, 10%, 500V, N750, Ceramic	A-5
C207	05A051-013	.01 Mfd, + 80-20%, 500V, Z5U, Ceramic	B-6
C208	05A068-057	1000 pf, 20%, Z5S, Ceramic	A-5
C209	05A051-013	.01 Mfd, + 80-20%, 500V, Z5U, Ceramic	A-6
C210	04A030-028	10 Mfd, 16V, Electrolytic	B-7
C211	05A052-213	.01 Mfd, 20%, 600V, Paper Mylar	A-8
C212	05A051-084	4700 pf, 10%, 500V, Z5P, Ceramic	B-2
C300	03A020-001	3-15 Pf. Trimmer	C-2
C301	05A051-119	43 pf, 5%, 500V, NPO, Ceramic	C-2
C302	05A051-021	820 pf, 10%, 500V, Z5P, Ceramic	D-2
C303	05A052-029	0.22 Mfd, 20%, 200V, Paper Mylar	D-2
C304	05A051-021	820 pf, 10%, 500V, Z5P, Ceramic	C-3
C305	05A051-071	1000 pf, 20%, 500V, Z5P, Ceramic	D-3
C306	05A051-071	1000 pf, 20%, 500V, Z5P, Ceramic	D-3
C307	05A051-071	1000 pf, 20%, 500V, Z5P, Ceramic	D-4
C308	05A051-117	470 pf, 5%, 500V, Z5F, Ceramic	C-4
C309	05A051-121	1500 pf, 10%, 500V, Z5F, Ceramic	D-5
C310	05A051-117	470 pf, 5%, 500V, Z5F, Ceramic	D-5
C311	05A072-075	1.0 pf, 10%, 500V, Headed Lead	C-6
C312	05A051-118	2.7 pf, ±.25 pf, 500V, NPO, Ceramic	C-5
C313	05A051-042	3.3 pf, ±.25 pf, 500V, N750, Ceramic	C-6
C314	05A051-089	56 pf, 5%, 500V, N750, Ceramic	C-6
C315	05A051-095	10 pf, 5%, 500V, NPO, Ceramic	D-6
C316	05A051-046	56 pf, 5%, 500V, NPO, Ceramic	C-7
C317	05A051-095	10 pf, 5%, 500V, NPO, Ceramic	C-6
C318	05A051-095	10 pf, 5%, 500V, NPO, Ceramic	B-7
C319	05A051-118	2.7 pf, ±.25 pf, 500V, NPO, Ceramic	B-7
C320	05A051-006	100 pf, 10%, 500V, NO33, Ceramic	B-8
C321	05A052-021	0.047 Mfd, 20%, 200V, Paper Mylar	C-9
C322	05A055-013	.01 Mfd, 20%, 200V, Molded Tubular	C-9
C323	05A051-013	.01 Mfd, +80-20%, 500V, Z5U, Ceramic	C-10
C324	05A051-120	680 pf, GMV, 500V, Z5U, Ceramic	I-13
C325	05A051-120	680 pf, GMV, 500V, Z5U, Ceramic	I-12
C326	05A051-120	680 pf, GMV, 500V, Z5U, Ceramic	I-12
C327	05A072-073	.82 Pf., Headed Lead, 500 V, 10%	B-6
C500	05A051-080	.02 Mfd, +80-20%, 500V, Z5U, Ceramic	D-1
C501	05A051-013	.01 Mfd, +80-20%, 500V, Z5U, Ceramic	D-2
C502	05A051-080	.02 Mfd, +80-20%, 500V, Z5U, Ceramic	E-2
C503	05A052-025	0.1 Mfd, 20%, 200V, Mylar	E-3
C504	05A051-037	1500 pf, 20%, 500V, Z5P, Ceramic	E-3
C505	05A051-028	33 pf, 20%, 500V, N150, Ceramic	E-3
C506	05A051-122	6800 pf, 20%, 500V, Z5F, Ceramic	E-4
C507	05A051-011	680 pf, 20%, 500V, Z5P, Ceramic	E-4
C508	05A051-037	1500 pf, 20%, 500V, Z5P, Ceramic	E-5
C509	05A052-125	0.1 Mfd, 20%, 400V, Paper Mylar	E-5
C510	05A052-175	0.1 Mfd, 10%, 400V, Paper Mylar	E-6
C511	05A070-017	2200 pf, 5%, 630V, Styrene	E-6
C512	05A051-054	3300 pf, 20%, 1KV, Z5D, Ceramic	E-7
C513	05A052-221	0.047 Mfd, 20%, 600V, Paper Mylar	E-7
C514	04A030-009	20 Mfd, 15V, Electrolytic	E-7
C515	04A030-066	50 Mfd, 15V, Electrolytic	F-8
C516	05A051-108	100 pf, 10%, 500V, NPO, Ceramic	G-5
C517	05A051-108	100 pf, 10%, 500V, NPO, Ceramic	H-5
C518	05A052-025	0.1 Mfd, 20%, 200V, Mylar	H-5
C519	05A051-084	4700 pf, 10%, 500V, Z5P, Ceramic	H-5
C520	05A051-035	1000 pf, 10%, 500V, Z5P, Ceramic	H-5
C521	05A051-087	3300 pf, 10%, 500V, Z5F, Ceramic	H-5
C522	05A051-080	.02 Mfd, +80-20%, 500V, Z5U, Ceramic	H-6
C523	05A070-016	220 pf, 5%, 630V, Styrene	G-6
C524	05A070-007	1000 pf, 5%, 630V, Styrene	G-6
C525	05A070-007	1000 pf, 5%, 630V, Styrene	H-7
C526	05A070-015	1500 pf, 5%, 630V, Styrene	H-7
C527	05A051-080	.02 Mfd, +80-20%, 500V, Z5U, Ceramic	H-8
C528	05A070-014	150 pf, 5%, 630V, Styrene	G-8
C529	05A051-084	4700 pf, 10%, 500V, Z5U, Ceramic	G-8
C530	05A051-038	220 pf, 10%, 500V. N750. Ceramic	E-6
C531	05A068-059	1000 Pf., 20%, 1KV, Z5S, Ceramic	E-7
C532	04A030-064	10 Mfd., 350 V, Electrolytic	E-8
C700	05A051-013	.01 Mfd, +80-20%, 500V, Z5U, Ceramic	A-11
C701	05A051-013	.01 Mfd, +80-20%, 500V, Z5U, Ceramic	B-11
C702	04A030-065	.5 Mfd, 15V, Electrolytic	B-11
C703	05A051-037	1500 pf, 20%, 500V, Z5P, Ceramic	B-12
C704	Part of T700	330 pf	B-12
C705	05A051-013	.01 Mfd, +80-20%, 500V, Z5U, Ceramic	B-13
C706	05A051-016	390 pf, 10%, 500V, Z5F, Ceramic	B-13
C707	05A052-067	0.022 Mfd, 10%, 200V, Paper Mylar	A-13
C708	05A051-073	470 pf, 10%, 500V, Z5P, Ceramic	D-11
C709	05A062-020	470 pf, 5%, 300V, Mica	D-11
C710	05A051-071	1000 pf, 20%, 500V, Z5P, Ceramic	D-11
C711	05A051-013	.01 Mfd, +80-20%, 500V, Z5U, Ceramic	D-11
C712	05A051-013	.01 Mfd, +80-20%, 500V, Z5U, Ceramic	D-12
C713	05A051-065	270 Pf., 10%, 1KV, Z5D, Ceramic	D-13
C714	05A051-073	470 pf, 10%, 500V, Z5P, Ceramic	D-14
C715	05A051-013	.01 Mfd, +80-20%, 500V, Z5U, Ceramic	D-14
C717	05A051-013	.01 Mfd, +80-20%, 500V, Z5U, Ceramic	D-14
C718	05A062-002	330 pf, 5%, 500 V, Mica	D-14
C719	05A062-002	330 pf, 5%, 500V, Mica	C-14
C720	05A062-002	330 pf, 5%, 500V, Mica	B-15
C721	05A062-002	330 pf, 5%, 500V, Mica	A-15
C722	05A052-025	0.1 Mfd, 20%, 200V, Mylar	B-15
C723	05A052-025	0.1 Mfd, 20%, 200V, Mylar	D-15
C724	05A051-013	.01 Mfd, +80-20%, 500V, Z5U, Ceramic	C-16
C725	05A051-026	4 pf, 5%, 500V, NPO, Ceramic	C-15
C726	05A051-025	10 pf, 10%, 500V, NPO, Ceramic	C-16
C727	05A051-013	.01 Mfd, +80-20%, 500V, Z5U, Ceramic	C-16
C728	05A051-025	10 pf, 10%, 500V, NPO, Ceramic	B-17
C729	05A051-038	220 pf, 10%, 500V, N750, Ceramic	C-17
C730	05A051-003	82 pf, 10%, 500V, NPO, Ceramic	C-17
C731	05A068-009	6.8 pf, ±.5 pf, 500V, NPO, Ceramic	C-18
C732	05A051-013	.01 Mfd, +80-20%, 500V, NPO, Ceramic	C-18
C733	05A062-056	200 pf, 5%, 500V, Mica	B-18
C734	05A051-028	33 pf, 20%, 500V, N150, Ceramic	B-19
C735	05A051-028	33 pf, 20%, 500V, N150, Ceramic	C-19
C736	05A051-080	.02 Mfd, +80-20%, 500V, Z5U, Ceramic	A-20
C737	05A051-080	.02 Mfd, +80-20%, 500V, Z5U, Ceramic	B-20
C738	05A051-080	.02 Mfd, +80-20%, 500V, Z5U, Ceramic	C-20
C739	05A051-127	.02 Mfd, 20% 1KV, Z5U	A-22
C740	05A051-127	.02 Mfd, 20% 1KV, Z5U	B-22
C741	05A051-127	.02 Mfd, 20% 1KV, Z5U	C-22
C742	05A051-025	10 pf, 10%, 500V, NPO, Ceramic	D-19
C743	05A051-126	22 pf, 10%, 500V, N470, Ceramic	B-19
C744	05A051-018	120 Pf., 10%, 500 V, N2200, Ceramic	D-13
C745	05A062-057	300 Pf., 5%, 500 V, Mica	A-18
C746	05A051-110	15 Pf., 20%, 500 V, NPO, Ceramic	A-18
C747	05A052-025	.1 Mfd., 20%, 200 V, Tubular Mylar	D-18
C801	05A052-025	0.1 Mfd, 20%, 200V, Paper Mylar	G-16
C802	05A052-174	0.082 Mfd, 10%, 400V, Paper Mylar	I-18
C803	05A052-174	0.082 Mfd, 10%, 400V, Paper Mylar	H-16
C804	05A052-077	.15 Mfd, 10%, 200V, Paper Mylar	H-16
C805	05A052-075	0.1 Mfd, 10%, 200V, Paper Mylar	G-16
C806	05A052-080	0.27 Mfd, 10%, 200V, Paper Mylar	G-18

Symbol No.	Part No.	Description	Schematic Zone No.
		RESISTORS	
		Carbon Comp., 1/2W, 10% unless stated otherwise	
R100	05R275-705	7.5K, 5%	I-3
R101	05R310-705	10K, 5%	I-4
R103	08A118-014	5, 20W, 10%, Wire Wound	H-4
R104	08A118-013	3, 7W, 10%, Wire Wound	G-3
R105	20R315-010	15K, 2W, 10%	G-4
R106	08A160-002	270, 3W, 10%, Wire Wound	H-5
R107	10R310-810	10K, 1 W, 10%	F-4
R108	08A160-003	70, 2W, 10%, Wire Wound	F-4
R109	05R115-810	150	H-8
R110	05R433-810	330K	H-8
R111	10R510-010	1 meg, 1W, 10%	H-8
R112	10R610-610	10 meg, 1W, 10%	H-9
R113	02A044-067	200K, H.V. Adjust	H-8
R114	10R115-010	150, 1W, 10%	H-9
R115	20R333-010	33K, 2W, 10%	H-11
R116	Part of Defl. Yoke	4.7K, 1W	G-14
R117	Part of Defl. Yoke	220	F-14
R118	Part of Defl. Yoke	220	F-14
R119	08A117-024	12,000 ohm, 2W, 10%, Film	D-1
R120	02A181-001	1 megohm, Volume Control,	
*R120	02A181-001	1 Meg. Vol. Control TPST SW. (Inst. On) (14")	A-6
*R120	02A181-005	1 Meg. Vol. Control TPST SW.	

tion	Schematic Zone No.
5P, Ceramic	H-5
5P, Ceramic	H-5
F, Ceramic	H-5
V, Z5U, Ceramic	H-6
ne	G-6
yrene	G-6
yrene	H-7
yrene	H-7
0V, Z5U, Ceramic	H-8
ene	G-8
5U, Ceramic	G-8
50, Ceramic	E-6
S, Ceramic	E-7
lytic	E-8
0V, Z5U, Ceramic	A-11
0V, Z5U, Ceramic	B-11
tic	B-11
5P, Ceramic	B-12
	B-12
0V, Z5U, Ceramic	B-13
F, Ceramic	B-13
, Paper Mylar	A-13
5P, Ceramic	D-11
ica	D-11
Z5P, Ceramic	D-11
0V, Z5U, Ceramic	D-11
0V, Z5U, Ceramic	D-12
, Ceramic	D-13
5P, Ceramic	D-14
0V, Z5U, Ceramic	D-14
0V, Z5U, Ceramic	D-14
ica	D-14
ica	C-14
ica	B-15
ica	A-15
Mylar	B-15
Mylar	D-15
0V, Z5U, Ceramic	C-16
Ceramic	C-15
PO, Ceramic	C-16
0V, Z5U, Ceramic	C-16
O, Ceramic	B-17
750, Ceramic	C-17
PO, Ceramic	C-17
NPO, Ceramic	C-18
0V, NPO, Ceramic	C-18
ica	B-18
150, Ceramic	B-19
150, Ceramic	C-19
00V, Z5U, Ceramic	A-20
00V, Z5U, Ceramic	B-20
00V, Z5U, Ceramic	C-20
Z5U	A-22
Z5U	B-22
Z5U	C-22
PO, Ceramic	D-19
470, Ceramic	B-19
2200, Ceramic	D-13
ca	A-18
O, Ceramic	A-18
ubular Mylar	D-18
Paper Mylar	G-16
V, Paper Mylar	I-18
V, Paper Mylar	H-16
Paper Mylar	H-16
Paper Mylar	G-16
, Paper Mylar	G-18

ption	Schematic Zone No.
less stated otherwise	
	I-3
	I-4
und	H-4
Wound	G-3
	G-4
Wound	H-5
	F-4
Wound	F-4
	H-8
	H-8
	H-8
	H-9
	H-8
	H-9
	H-11
	G-14
	F-14
	F-14
%, Film	D-1
ontrol,	
PST SW.	
	A-6
PST SW.	
3")	A-6

Symbol No.	Part No.	Description	Schematic Zone No.
		RESISTORS	
*R120	02A094-030	1 Meg. Vol. Control (25V)	A-6
R121	05R047-820	47 ohm, 20%	A-9
R122	05R110-820	100 ohm, 20%	A-10
*R123	02A180-004	100,000 ohm, Brightness Control (14")	D-9
*R123	02A094-012	250,000 ohm Brightness Control (18"& 20")	F-13
*R123, *R124	02A183-004	350, 250K, Dual Control, Briteness/ Contrast (18" & 25V)	D-9, D-10
*R124	02A094-027	250 Ohm Contrast Control (18" to 25")	D-10
R124	02A180-005	250 ohm, Contrast Control	D-10
R125	05R427-710	270K	D-9
R126	02A044-063	10,000 ohm, AGC Control	F-2
R127	05R168-810	680 ohm	G-2
*R128	02A044-012	3.5 Meg., Focus Control (Lo V. Focus)	H-20
*R128	02A044-069	15 Meg., Focus Control (H.V. Focus)	G-13
*R129	02A094-032	2 Meg. Vert. Hold Control (23V)	E-6
*R129	02A094-026	2 Meg. Vert Hold Control (18" to 25")	E-6
*R129	02A180-001	2 Meg. Vert Hold Control (14")	E-6
*R129, *R134	02A183-006	2 Meg, 500, Dual Control, V. Hold/ Color (18")	E-6, A-13
R130	02A044-066	150,000 ohm, Vert. Linearity Control	F-7
R131	05R356-810	56,000 ohm	E-6
R132	05R310-810	10K	F-8
*R134	02A094-011	500 Ohm, Color Control (18" to 25")	A-13
*R134	02A180-002	500 Ohm, Color Control (14")	A-13
*R135	02A094-031	600 Ohm, Tint Control (18" to 25")	D-13
*R135	02A180-003	1200 Ohm, Tint Control (14")	D-13
R136	05R227-810	2700 ohm	F-20
R137	02A044-065	6000 ohm, Green Drive Control	F-20
R138	02A044-065	6000 ohm, Blue Drive Control	F-20
R139	10R282-010	8.2K, 1W	F-19
R140	10R310-010	10K, 1W	F-20
R141	02A044-064	1.5 megohm, Blue Screen Control	G-20
R142	02A044-064	1.5 megohm, Green Screen Control	G-20
R143	02A044-064	1.5 megohm, Red Screen Control	H-20
R144	02A044-012	3.5 megohm, Vertical Height Control	F-5
R145	05R318-810	18K	H-20
R146	02A044-062	300 ohm, Color Killer Adj.	A-17
R148	10R210-010	1K, 1W, 10%	G-11
R149	08A109-000	3, 3W, 10%. Wire Wound	I-2
*R150	05R418-810	180K (18" to 25")	F-13
R151	05R522-820	2.2 Meg	E-20
R152	05R356-810	56K	H-8
R153	05R327-810	27K	D-1
R154	05R327-810	27K	D-1
R155	05R327-810	27K	D-1
R156	08A052-019	10 Ohm Horiz. Centering Control (Part of Flyback)	I-11
*R157	20R547-020	4.7 Meg., 2W, 20%	F-9
*R158	05R410-810	100K	F-10
*R159	08A117-008	66 Meg., 6KV, Film	F-10
*R160	08A161-001	Focustat	G-13
R200	05R110-710	100	B-2
R201	05R315-710	15K	B-3
R202	05R156-710	560	B-4
R203	05R047-710	47	A-4
R204	05R310-710	10K	B-4
R205	05R456-710	560K	B-5
R206	05R422-710	220K	A-6
R207	05R112-710	120	B-7
R208	05R212-610	220K	A-7
R209	05R422-710	220K	A-3
R210	05R422-710	220K	A-5
R300	05R247-505	4.7K, 5%	C-2
R301	05R233-510	3.3K	C-3
R302	05R456-710	560K	C-3
R303	05R047-710	47	C-3
R304	10R218-010	1.8K, 1W	D-3
R305	05R615-810	15 meg	D-3
R306	05R410-710	100K	D-4
R307	05R256-510	5.6K	C-3
R308	05R127-710	270	C-4
R309	05R068-810	68	C-4
R310	05R327-710	27K	D-4
R311	05R410-710	100K	D-3
R312	05R147-520	470, 20%	C-4
R313	05R268-510	6.8K	C-4
R314	05R112-710	120	C-5
R315	05R147-520	470, 20%	C-5
R316	05R247-505	4.7K, 5%	B-6
R317	05R256-505	5.6K, 5%	C-6
R318	05R282-505	8.2K, 5%	C-7
R319	05R247-505	4.7K, 5%	C-8
R320	05R133-710	330	C-8
R321	05R218-705	1.8K, 5%	C-8
R322	05R218-705	1.8K, 5%	C-9
R323	05R415-710	150K	C-9
R324	05R533-710	3.3 meg	C-9
R325	05R310-710	10K	C-9
R326	05R510-710	1 meg	C-9
R327	05R027-710	27	C-10
R328	05R310-710	10K	C-10
R329	08A117-029	5.6K, 10W, 10%, Film	C-11
R330	05R312-710	12K	C-9
R500	05R282-710	8.2K	C-1
R501	05R533-710	3.3 meg	D-1
R502	05R410-710	100K	D-2
R503	05R418-810	180K	D-2
R504	05R368-710	68K	E-1
R505	05R212-710	1.2K	E-3
R506	10R318-010	18K, 1W	E-3
R507	05R468-710	680K	E-4
R508	05R515-810	1.5 meg	E-4

Symbol No.	Part No.	Description
		RESISTORS
R509	05R282-710	8.2K
R510	05R322-710	22K
R511	05R422-710	220K
R512	05R310-810	10K
R513	05R512-710	1.2 meg
R514	05A510-710	1 Meg
R515	05R410-710	100K
R516	10R324-005	24K, 1W, 5%
R517	05R522-710	2.2 meg
R518	05R115-710	150
R519	10R112-010	120, 1W
R520	05R456-710	560K
R521	05R468-710	680K
R522	05R510-710	1 meg
R523	05R347-710	47K
R524	05R215-705	1.5K, 5%
R525	20R322-910	22K, 2W
R526	05R347-710	47K
R527	05R327-710	27K
R528	05R412-710	120K
R529	05R356-710	56K
R530	05R410-710	100K
R531	05R547-710	4.7 meg
R532	05R422-710	220K
R533	05R210-720	1,000, 20%
R534	05R322-710	22K
R535	05R310-310	10K
R536	05R510-710	1 Meg.
R700	05R422-710	220K
R701	05R139-710	390
R702	05R339-710	39K
R703	05R215-710	1.5K
R704	10R415-010	150K, 1W
R705	05R210-710	1K
R706	05R210-710	1K
R707	05R215-710	1.5K
R708	10R422-010	220K, 1W
R709	05R347-710	47K
R710	05R239-710	3.9K
R711	05R110-710	100
R712	05R447-710	470K
R713	05R315-710	15K
R714	05R210-710	1K
R715	05R412-710	120K
R716	05R268-710	6.8K
R717	10R268-010	6.8K, 1W
R718A, R718B	05R510-720	1 meg, 20%
R719A, R719B	05R210-720	1K, 20%
R720	05R339-710	39K
R721A, R721B	05R522-720	2.2 meg, 20%
R722	05R147-810	470
R723	05R333-710	33K
R724	05R215-710	1.5K
R725	05R315-710	15K
R726	05R518-810	1.8 meg
R727A, R727B	05R210-720	1K, 20%
R729	05R322-710	22K
R731	05R315-810	15K
R733	10R333-010	33K, 1W
R734	05R122-710	220
R735	05R168-710	680
R736	05R327-710	27K
R737	10R347-010	47K, 1W
R738	10R347-010	47K, 1W
R739	05R347-710	47K
R740	08A089-000	6.8K, 2W, 10%, Film
R741	05R118-710	180
R743	05R147-710	470
R744	05R147-710	470
R745	05R127-710	270
R747	05R282-705	8.2K, 5%
R748	05R268-705	6.8K, 5%
R749	05R268-710	6.8K
R750	05R510-710	1 meg
R751	05R510-710	1 meg
R752	05R510-710	1 meg
R753	08A097-000	270, 3W, 10%, Film
R754	08A117-025	15K, 3W, 10%, Film
R755	08A117-025	15K, 3W, 10%, Film
R756	08A117-025	15K, 3W, 10%, Film
R757	05R427-710	270K
R758	05R427-710	270K
R759	05R427-710	270K
R760	05R456-710	560K
R761	05R456-710	560K
R762	05R456-710	560K
R764	05R410-710	100K
R765	05R410-710	100K
R766	05R315-710	15K
R767	05R510-710	1 Meg.
R768	05R312-710	12K
R769	05R168-710	680
R770	05R433-710	330K
R771	05R433-710	330K
R772	05R433-710	330K
R801	08A052-015	60 ohm, 3W, Left Blue Horiz.
R802	10R127-010	270 ohm, 1W, 10%, Comp.
R803	10R110-010	100 ohm, 1W, 10%, Comp.
R804	08A052-006	150 ohm, 1W, Left R/G Vert.
R805	08A052-020	120 ohm, 1W, Left R/G Horiz.
R806	10R110-010	100 ohm, 1W, 10%. Comp.
R808	08A052-016	500 ohm, 1W, Bottom Blue Horiz.
R809	10R115-010	150 ohm, 1W, 10%, Comp.

Symbol No.	Part No.	Description	Schematic Zone No.
		RESISTORS	
R509	05R282-710	8.2K	E-4
R510	05R322-710	22K	E-5
R511	05R422-710	220K	E-5
R512	05R310-810	10K	E-5
R513	05R512-710	1.2 meg	E-5
R514	05A510-710	1 Meg	E-6
R515	05R410-710	100K	E-6
R516	10R324-005	24K, 1W, 5%	E-6
R517	05R522-710	2.2 meg	E-7
R518	05R115-710	150	E-7
R519	10R112-010	120, 1W	F-8
R520	05R456-710	560K	G-5
R521	05R468-710	680K	G-5
R522	05R510-710	1 meg	G-5
R523	05R347-710	47K	H-5
R524	05R215-705	1.5K, 5%	H-6
R525	20R322-910	22K, 2W	H-6
R526	05R347-710	47K	G-6
R527	05R327-710	27K	G-7
R528	05R412-710	120K	G-7
R529	05R356-710	56K	H-7
R530	05R410-710	100K	G-8
R531	05R547-710	4.7 meg	H-8
R532	05R422-710	220K	E-3
R533	05R210-720	1,000, 20%	H-5
R534	05R322-710	22K	F-8
R535	05R310-310	10K	F-8
R536	05R510-710	1 Meg.	F-6
R700	05R422-710	220K	A-11
R701	05R139-710	390	B-11
R702	05R339-710	39K	B-12
R703	05R215-710	1.5K	B-12
R704	10R415-010	150K, 1W	B-13
R705	05R210-710	1K	B-13
R706	05R210-710	1K	A-13
R707	05R215-710	1.5K	A-13
R708	10R422-010	220K, 1W	B-14
R709	05R347-710	47K	A-14
R710	05R239-710	3.9K	D-12
R711	05R110-710	100	D-11
R712	05R447-710	470K	C-12
R713	05R315-710	15K	C-12
R714	05R210-710	1K	D-12
R715	05R412-710	120K	D-12
R716	05R268-710	6.8K	D-13
R717	10R268-010	6.8K, 1W	D-13
R718A R718B	05R510-720	1 meg, 20%	C-15, D-15
R719A R719B	05R210-720	1K, 20%	C-15, D-15
R720 R721A R721B	05R339-710 05R522-720	39K 2.2 meg, 20%	B-16 B-15, B-15
R722	05R147-810	470	C-15
R723	05R333-710	33K	D-15
R724	05R215-710	1.5K	C-15
R725	05R315-710	15K	C-14
R726	05R518-810	1.8 meg	B-15
R727A R727B	05R210-720	1K, 20%	A-15, B-15
R729	05R322-710	22K	B-16
R731	05R315-810	15K	B-16
R733	10R333-010	33K, 1W	A-17
R734	05R122-710	220	C-15
R735	05R168-710	680	C-16
R736	05R327-710	27K	C-16
R737	10R347-010	47K, 1W	C-16
R738	10R347-010	47K, 1W	C-17
R739	05R347-710	47K	C-17
R740	08A089-000	6.8K, 2W, 10%, Film	C-18
R741	05R118-710	180	C-18
R743	05R147-710	470	C-19
R744	05R147-710	470	B-19
R745	05R127-710	270	B-18
R747	05R282-705	8.2K, 5%	B-20
R748	05R268-705	6.8K, 5%	B-20
R749	05R268-710	6.8K	C-20
R750	05R510-710	1 meg	B-20
R751	05R510-710	1 meg	B-20
R752	05R510-710	1 meg	C-20
R753	08A097-000	270, 3W, 10%, Film	D-20
R754	08A117-025	15K, 3W, 10%, Film	A-21
R755	08A117-025	15K, 3W, 10%, Film	B-21
R756	08A117-025	15K, 3W, 10%, Film	C-21
R757	05R427-710	270K	A-22
R758	05R427-710	270K	B-22
R759	05R427-710	270K	B-22
R760	05R456-710	560K	B-22
R761	05R456-710	560K	C-22
R762	05R456-710	560K	D-22
R764	05R410-710	100K	D-19
R765	05R410-710	100K	D-19
R766	05R315-710	15K	D-18
R767	05R510-710	1 Meg.	D-14
R768	05R312-710	12K	D-13
R769	05R168-710	680	A-18
R770	05R433-710	330K	C-20
R771	05R433-710	330K	C-20
R772	05R433-710	330K	C-20
R801	08A052-015	60 ohm, 3W, Left Blue Horiz.	H-18
R802	10R127-010	270 ohm, 1W, 10%, Comp.	H-18
R803	10R110-010	100 ohm, 1W, 10%, Comp.	G-16
R804	08A052-006	150 ohm, 1W, Left R/G Vert.	H-16
R805	08A052-020	120 ohm, 1W, Left R/G Horiz.	G-16
R806	10R110-010	100 ohm, 1W, 10%. Comp.	G-16
R808	08A052-016	500 ohm, 1W, Bottom Blue Horiz.	G-18
R809	10R115-010	150 ohm, 1W, 10%, Comp.	H-18

Symbol No.	Part No.	Description	Schematic Zone No.
		RESISTORS	
R810	10R047-010	47 ohm, 1W, 10%, Comp.	F-18
R811	08A052-016	500 ohm, 1W, Top R/G Vert.	F-18
R812	08A052-016	500 ohm, 1W, Bottom R/G Horiz.	F-18
R813	08A052-020	120 ohm, 1W, Top R/G Horiz.	F-18
R814	08A052-020	120 ohm, 1W, Bottom R/G Vert.	F-15
R815	08A052-020	120 ohm, 1W, Top Blue Horiz.	G-15
R816	20R047-010	47 ohm, 2W, 10%, Comp.	I-18
R817	08A117-027	220 ohm, 2W, 10%, Film	H-16
		COILS	
L100	01A467-001	55 uh, Choke	H-1, H-2
L101	01A467-001	55 uh, Choke	H-1, H-2
L102	10A099-001	1.0 Hy	H-4
L103	10A100-001	0.5 Hy	F-4
L104	01A446-001	Horiz. Hold Adj. Coil	H-7
L105	14A052-023	4.7 uh	H-10
L106	14A052-023	4.7 uh	G-10
L107	01A459-002	Deflection Yoke (20")	G-14
L107	01A459-001	Deflection Yoke (14")	G-14
L108	16A040-001	Convergence Yoke	F,G,H-17
L113	01A249-009	Degaussing Coil (20")	F-3
L113	01A461-001	Degaussing Coil (14")	F-3
L200	01A443-001	Audio Takeoff, 4.5 Mhz	B-1
L201	01A443-001	Quadrature Det. Coil	B-5
L203	14A052-023	4.7 uh, Choke	A-6
L300	01A468-001	0.12 uh, Fixed	C-2
L301	01A445-001	47.25 Mhz, Trap	C-2
L302	14A052-023	4.7 uh, Choke	B-5
L303	14A052-023	4.7 uh, Choke	B-5
L304	14A052-024	14 uh, Choke	B-6
L305	14A052-024	14 uh, Choke	B-7
L306	14A052-023	4.7 uh, Choke	B-7
L307	14A052-025	1.1 uh, Choke	B-7
L308	01A468-002	0.21 uh, Fixed	C-6
L309	01A448-001	3rd IF Plate 44 Mhz	C-6
L310	01A445-001	41.25 Mhz Trap	C-7
L311	14A052-021	500 uh, Fixed	C-8
L312	14A052-009	82 uh, Fixed	B-9
L313	14A052-022	300 uh, Fixed	B-10
L314	14A052-021	500 uh, Fixed	C-11
L700	01A444-001	4.5 Mhz Trap	D-11
L701	14A052-021	500 uh, Fixed	D-11
L702	14A052-017	5.6 uh, Choke	B-13
L703	01A447-001	3.58 Mhz Reactance	C-16
L704	14A052-024	14 uh, Choke	A-18
L705	14A052-016	10 uh, Choke	B-19
L706	14A052-023	4.7 uh, Choke	B-19
L707	14A052-023	4.7 uh, Choke	C-19
L710	14A052-011	620 uh, Choke	A-20
L711	14A052-011	620 uh, Choke	C-20
L713	14A052-018	1.8 uh	A-18
L714	14A052-016	10 uh	A-18
L715	14A052-011	620 uh	C-20
L801	01A466-001	Right Red & Green Vert. Lines	H-16
L802	01A463-001	Right Red & Green Horiz. Lines	G-16
L803	01A465-001	Blue Shaping Coil	H-18
L804	01A464-001	Right Blue Horiz. Lines	H-18
		DIODES	
CR100	21A102-001	Low B+ Rect, (Silicon)	F-4
CR101	21A102-001	Instant Entertainment (Silicon)	H-1
CR102	21A102-001	Power Rectifier B+ (Silicon)	H-4
CR103	21A102-001	Power Rect. B+ (Silicon)	H-4
CR104	21A102-001	Neg. LV Rect, (Silicon)	I-3
CR105	21A102-001	H. Centering Diode (Silicon)	I-11
*CR106	21A107-001	Focus Rectifier, 6KV, (Silicon)	F-10
CR301	21A009-002	Sound Detector (Silicon 1N87T)	B-6
CR302	21A009-002	Video Detector (Silicon 1N87T)	B-6
CR501A CR501B	21A002-000	Horizontal AFC	G-5
CR701	21A008-002	Bandpass Gate (Silicon)	B-13
CR702	21A009-009	Burst Amplifier Gate (Silicon 1N914A)	D-13
CR703	21A009-008	Phase Detector (Silicon 1N3070)	C-15
CR704	21A009-008	Phase Detector (Silicon 1N3070)	C-15
CR705	21A009-008	Color Killer Rect. (Silicon 1N3070)	A-15
CR706	21A009-008	Color Killer Rect. (Silicon 1N3070)	B-15
CR707	21A009-009	Killer Det. (Silicon 1N914A)	B-16
CR708	21A102-001	Blanker Gate (Silicon)	D-18
CR801A CR801B CR801C CR801D	21A005-000	Rectifier, Selenium	I-18 G-16 G-16 G-18
		ZENER DIODES	
Z501	21A037-006	Zener Diode	F-7
		CRYSTALS	
Y701	09A019-001	Piezo-Electric Resonator, 3.58 Mhz	C-17
		SWITCHES	
* S100	Part of R120	Instant On/Off	F-2, G-2
* S100	06A053-013	Instant On/Off TPST Sw. (25V)	F-2, G-2
* S100	Part of R120	Instant On/Off (14" to 23V)	F-2, G-2
S101	06A045-000	Normal-Service, DPDT	F-19
		FUSES	
F100	05T035-001	Power Fuse, 3.5A Slo-Blo	H-3
		PC NETWORKS	
CPR100	05A143-001	Tuner AC Ground	H-1
*CPR101	05A143-001	Controls AC Ground	E-13
CPR801	05A143-001	AC Ground	H-15

Symbol No.	Part No.	Description	Schematic Zone No.
		RESISTORS	
R810	10R047-010	47 ohm, 1W, 10%, Comp.	F-18
R811	08A052-016	500 ohm, 1W, Top R/G Vert.	F-18
R812	08A052-016	500 ohm, 1W, Bottom R/G Horiz.	F-18
R813	08A052-020	120 ohm, 1W, Top R/G Horiz.	F-18
R814	08A052-020	120 ohm, 1W, Bottom R/G Vert.	F-15
R815	08A052-020	120 ohm, 1W, Top Blue Horiz.	G-15
R816	20R047-010	47 ohm, 2W, 10%, Comp.	I-18
R817	08A117-027	220 ohm, 2W, 10%, Film	H-16
		COILS	
L100	01A467-001	55 uh, Choke	H-1, H-2
L101	01A467-001	55 uh, Choke	H-1, H-2
L102	10A099-001	1.0 Hy	H-4
L103	10A100-001	0.5 Hy	F-4
L104	01A446-001	Horiz. Hold Adj. Coil	H-7
L105	14A052-023	4.7 uh	H-10
L106	14A052-023	4.7 uh	G-10
L107	01A459-002	Deflection Yoke (20")	G-14
L107	01A459-001	Deflection Yoke (14")	G-14
L108	16A040-001	Convergence Yoke	F,G,H-17
L113	01A249-009	Degaussing Coil (20")	F-3
L113	01A461-001	Degaussing Coil (14")	F-3
L200	01A443-001	Audio Takeoff, 4.5 Mhz	B-1
L201	01A443-001	Quadrature Det. Coil	B-5
L203	14A052-023	4.7 uh, Choke	A-6
L300	01A468-001	0.12 uh, Fixed	C-2
L301	01A445-001	47.25 Mhz, Trap	C-2
L302	14A052-023	4.7 uh, Choke	B-5
L303	14A052-023	4.7 uh, Choke	B-5
L304	14A052-024	14 uh, Choke	B-6
L305	14A052-024	14 uh, Choke	B-7
L306	14A052-023	4.7 uh, Choke	B-7
L307	14A052-025	1.1 uh, Choke	B-7
L308	01A468-002	0.21 uh, Fixed	C-6
L309	01A448-001	3rd IF Plate 44 Mhz	C-6
L310	01A445-001	41.25 Mhz Trap	C-7
L311	14A052-021	500 uh, Fixed	C-8
L312	14A052-009	82 uh, Fixed	B-9
L313	14A052-022	300 uh, Fixed	B-10
L314	14A052-021	500 uh, Fixed	C-11
L700	01A444-001	4.5 Mhz Trap	D-11
L701	14A052-021	500 uh, Fixed	D-11
L702	14A052-017	5.6 uh, Choke	B-13
L703	01A447-001	3.58 Mhz Reactance	C-16
L704	14A052-024	14 uh, Choke	A-18
L705	14A052-016	10 uh, Choke	B-19
L706	14A052-023	4.7 uh, Choke	B-19
L707	14A052-023	4.7 uh, Choke	C-19
L710	14A052-011	620 uh, Choke	A-20
L711	14A052-011	620 uh, Choke	C-20
L713	14A052-018	1.8 uh	A-18
L714	14A052-016	10 uh	A-18
L715	14A052-011	620 uh	C-20
L801	01A466-001	Right Red & Green Vert. Lines	H-16
L802	01A463-001	Right Red & Green Horiz. Lines	G-16
L803	01A465-001	Blue Shaping Coil	H-18
L804	01A464-001	Right Blue Horiz. Lines	H-18
		DIODES	
CR100	21A102-001	Low B+ Rect, (Silicon)	F-4
CR101	21A102-001	Instant Entertainment (Silicon)	H-1
CR102	21A102-001	Power Rectifier B+ (Silicon)	H-4
CR103	21A102-001	Power Rect. B+ (Silicon)	H-4
CR104	21A102-001	Neg. LV Rect, (Silicon)	I-3
CR105	21A102-001	H. Centering Diode (Silicon)	I-11
*CR106	21A107-001	Focus Rectifier, 6KV, (Silicon)	F-10
CR301	21A009-002	Sound Detector (Silicon 1N87T)	B-6
CR302	21A009-002	Video Detector (Silicon 1N87T)	B-6
CR501A CR501B	21A002-000	Horizontal AFC	G-5
CR701	21A008-002	Bandpass Gate (Silicon)	B-13
CR702	21A009-009	Burst Amplifier Gate (Silicon 1N914A)	D-13
CR703	21A009-008	Phase Detector (Silicon 1N3070)	C-15
CR704	21A009-008	Phase Detector (Silicon 1N3070)	C-15
CR705	21A009-008	Color Killer Rect. (Silicon 1N3070)	A-15
CR706	21A009-008	Color Killer Rect. (Silicon 1N3070)	B-15
CR707	21A009-009	Killer Det. (Silicon 1N914A)	B-16
CR708	21A102-001	Blanker Gate (Silicon)	D-18
CR801A CR801B CR801C CR801D	21A005-000	Rectifier, Selenium	I-18 G-16 G-16 G-18
		ZENER DIODES	
ZS01	21A037-006	Zener Diode	F-7
		CRYSTALS	
Y701	09A019-001	Piezo-Electric Resonator, 3.58 Mhz	C-17
		SWITCHES	
* S100	Part of R120	Instant On/Off	F-2, G-2
* S100	06A053-013	Instant On/Off TPST Sw. (25V)	F-2, G-2
* S100	Part of R120	Instant On/Off (14" to 23V)	F-2, G-2
S101	06A045-000	Normal-Service, DPDT	F-19
		FUSES	
F100	05T035-001	Power Fuse, 3.5A Slo-Blo	H-3
		PC NETWORKS	
CPR100	05A143-001	Tuner AC Ground	H-1
*CPR101	05A143-001	Controls AC Ground	E-13
CPR801	05A143-001	AC Ground	H-15

Symbol No.	Part No.	Description	Schematic Zone No.
		THERMISTORS & VARISTORS	
RT101	08A113-001	Thermistor	H-3
RT102	Part of Defl. Yoke	Thermistor (3.5 ohm Cold.)	G-13
RV101	08A114-001	Varistor	G-3
RV102	08A151-003	Varistor	H-8
RV103	08A111-001	Varistor, 1 Ma @ 870V	G-10
		CONNECTORS	
P100	04B130-003	Degaussing Coil Plug (Part of Coil Assy.)	G-3
P101	04B130-009	Yoke Plug (Part of Yoke Assy.)	H-13
P103	04B130-009	Convergence Conn.	F-12
P104	04B130-011	Controls Plug	E-12
P105	04B130-013	Tuner Plug	F-1
P106	13A113-018	Pilot Light Cable & Plug	H-4
J100	04B130-004	Degaussing Coil Socket	G-3
J101	04B130-010	Yoke Socket	H-12
J102	04B049-000	Earphone Socket	A-10
J103	04B130-010	Convergence Socket	F-15
J104	04B130-012	Controls socket	E-11
J105	04B130-015	Tuner Socket	H-1
J106	04B130-004	Pilot Light Cable Socket	B-1
J107	04B098-001	AC Socket	H-2
		TRANSFORMERS	
T101	10A098-001	CRT Fil. Trans.	I-1, H-4
T102	01A458-002	H.V. Output Transf.	G-11, H-11
T103	10A101-001	Audio Output Transf.	A-8, A-9
T104	10A102-001	Vert. Output Transf.	E-8
*T105	01A248-001	Focus Adjustment	F-10
T200	01A453-001	Audio IF 4.5 Mhz	A-3
T300	01A452-001	IF Input 44 Mhz	C-2
T301	01A449-001	1st Pix IF 45 Mhz	C-3
T302	01A450-001	2nd Pix IF 43.25 Mhz	C-5
T303	01A451-001	3rd Pix IF Sec. 44 Mhz	C-7
T304	01A457-001	4.5 Mhz Trap	C-7
T700	01A454-001	Bandpass Transf.	B-12
T701	01A455-002	Chroma Transf.	C-13
T702	01A455-002	Burst Transf.	C-14
T703	01A456-001	3.58 Mhz Osc. Transf.	C-18
DL301	01A167-002	Delay Line	B-9
*CPR101	05A143-001	Controls AC Ground	E-13
		TRANSISTORS	
Q701	21A015-025	Color Killer (PNP 2N4916)	A-16
Q702	21A015-025	Auto Chroma Control (PNP 2N4916)	B-16
Q703	21A015-026	Blanker (NPN 2N3567)	D-20
		ELECTRON TUBES	
V1	01T012-024	12BE3 Damper	G-10
V-2	01T021-005	21LG6A Horiz. Output	G-9
V3A	01T013-002	½13JZ8 Vert. Output	E-8
V3B		½13JZ8 Vert. Osc.	E-5
V4A	01T008-005	½8GN8 2nd Video Amp	C-10
V4B		½8GN8 Sync. Sep.	E-4
V5A	01T005-014	½5GH8A Horiz. Osc.	H-7
V5B		½5GH8A Horiz. Reactance	G-6
V6A	01T005-014	½5GH8A B-Y Demod.	A-19
V6B		½5GH8A B-Y Amp	A-21
V7A	01T005-014	½5GH8A R-Y Demod.	C-19
V7B		½5GH8A R-Y Amp	B-21
V8A	01T005-014	½5GH8A 3.58 Mhz Osc.	C-17
V8B		½5GH8A 3.58 Mhz React.	C-16
V9A	01T012-023	½12BF11 FM Detector	A-4
V9B		½12BF11 Audio Output	A-7
V10A	01T005-014	½5GH8A Burst Amp	D-14
V10B		½5GH8A G-Y Amp	C-21
V11A	01T005-014	½5GH8A AGC	E-2
V11B		½5GH8A Sync Amp.	E-3
V12A	01T005-014	½5GH8A Bandpass Amp.	B-12
V12B		½5GH8A Chroma Amp	C-11
V13A	01T005-014	½5GH8A Audio IF Amp	A-2
V13B		½5GH8A 1st Video Amp	C-8
V14	01T003-008	3JC6 3rd Pix IF	C-5
V15	01T003-009	3BZ6 2nd Pix IF	C-4
V16		3BZ6 1st Pix IF	C-3
V17	01T002-002	2HA5 RF Amp	
V17	01T002-003	2HQ5 R. F. Amplifier (Alt. Tuner)	Tuner
V18	01T005-017	5KZ8 Mixer Oscillator	
V18	01T005-018	5HB7 Mixer Oscillator (Alt. Tuner)	Tuner
V19	01T003-001	3A3A H.V. Rect.	G-12
V20	See Schematic Diagram for tube types used. Replace with type originally in set.		

HIGH VOLTAGE ADJUSTMENTS

1. Connect a VTVM through a high voltage probe to the anode lead of the CRT.
2. Set the brightness control CCW for no brightness, and adjust HV adjust control (R113) for 21 KV on the VTVM.

*Not used in all models